Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

**Revisiting the Macromolecules Image Assignment**

Mrs. Krouse, AP Biology

**Directions:** We are going to do a modified version of the image assignment you completed on the computers in the library. For this assignment, you will be given several images of molecules. Next to each image, you will write the following information…

1. The specific name of the molecule (You have the following names to choose from… a monosaccharide (in ring form), a monosaccharide (in straight chain form), a disaccharide, a polysaccharide, a glycerol, a fatty acid chain, a phospholipid, a triglyceride (aka fat), an amino acid, a polypeptide, a nucleotide, DNA, RNA)
2. Whether the image shows a monomer or polymer (Note: there is one molecule that is actually a dimer)
3. The type of macromolecule that is shown (i.e. a carbohydrate, lipid, protein, or nucleic acid)
4. An explanation of how you know which type of macromolecule is shown

|  |  |
| --- | --- |
| Example:     1. Fatty acid chain 2. Monomer 3. Lipid 4. A fatty acid chain is a component of most lipid molecules that contains a long chain of carbon atoms with hydrogen atoms branching off | 1.  https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRGX0jzDmGhfUtYCHkbejlJszaXtigcXqo2lHx0I2rXrqxnghPdrQ |
| 2.  http://www.indiana.edu/~oso/Fat/FatImg/lecithin.jpg | 3.  http://biochimej.univ-angers.fr/Page2/COURS/6CoursDEUST/CHROMATOGRAPHIE/2FIGURES/2GelFiltration/3SEPHADEX/3DextranStructure.gif |
| 4.  http://upload.wikimedia.org/wikipedia/commons/c/cb/DAMP_chemical_structure.png | 5. |
| 6.  http://upload.wikimedia.org/wikipedia/commons/thumb/8/8d/Sn-Glycerol.png/376px-Sn-Glycerol.png | 7.  http://www.wpclipart.com/science/atoms_molecules/molecules/sucrose.png |
| 8. | 9.  https://classconnection.s3.amazonaws.com/251/flashcards/704251/png/hbonds1316409154877.png |
| 10.  http://upload.wikimedia.org/wikipedia/commons/thumb/6/67/Beta-D-Fructofuranose.svg/230px-Beta-D-Fructofuranose.svg.png | 11. |
| 12.  http://2012books.lardbucket.org/books/introduction-to-chemistry-general-organic-and-biological/section_19/98d7162076ad3476ad54dac69f810a14.jpg |  |